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KEY=RESEARCH - GRAHAM RHODES

Architectural Research Methods *John Wiley & Sons* A practical guide to research for architects and designers—now updated and expanded! From searching for the best glass to prevent glare to determining how clients might react to the color choice for restaurant walls, research is a crucial tool that architects must master in order to effectively address the technical, aesthetic, and behavioral issues that arise in their work. This book's unique coverage of research methods is specifically targeted to help professional designers and researchers better conduct and understand research. Part I explores basic research issues and concepts, and includes chapters on relating theory to method and design to research. Part II gives a comprehensive treatment of specific strategies for investigating built forms. In all, the book covers seven types of research, including historical, qualitative, correlational, experimental, simulation, logical argumentation, and case studies and mixed methods. Features new to this edition include: Strategies for investigation, practical examples, and resources for additional information A look at current trends and innovations in research Coverage of design studio–based research that shows how strategies described in the book can be employed in real life A discussion of digital media and online research New and updated examples of research studies A new chapter on the relationship between design and research Architectural Research Methods is an essential reference for architecture students and researchers as well as architects, interior designers, landscape architects, and building product manufacturers. **Architecture and Design: Breakthroughs in Research and Practice Breakthroughs in Research and Practice** *IGI Global* Technological evolutions have changed the field of architecture exponentially, leading to more stable and energy-efficient building structures. Architects and engineers must be prepared to further enhance their knowledge in the field in order to effectively meet new and advancing standards. Architecture and Design: Breakthroughs in Research and Practice is an authoritative resource for the latest research on the application of new technologies and digital tools that revolutionize the work of architects globally, aiding in architectural design, planning, implementation, and restoration. Highlighting a range of pertinent topics such as design anthropology, digital preservation, and 3D modeling, this publication is an ideal reference source for researchers, scholars, IT professionals, engineers, architects, contractors, and academicians seeking current research on the development and creation of architectural design. Co-construction Community School Design An Architectural Research Paper Exploring a Form Diagram for Community Involved Co-constructive Learning School, and Building Design in the Context of in New Zealand. Master Thesis Explanatory Document. A Research Project Submitted Inpartial Fulfilment of the Requirements for the Degree of Master of Architecture Professional, Unitec Institute of Technology Sustainable Environmental Design in Architecture Impacts on Health *Springer Science & Business Media* Over the last few decades, there have been dramatic improvements in the understanding and research of environmental design. Numerous methods have been developed to enhance architectural design in order for it to be more energy efficient, sustainable and health enhancing. This book presents several theories and techniques that can be used to improve how buildings are engineered and designed in order to utilize more sustainable construction methods while promoting the health of the building's occupants. Contributions to the study of environmental design have come from a diversity of fields including applied mathematics, optimization, computer science, medical research, psychology, management science, architecture, and engineering. The techniques developed in these areas of research can be used to increase building performance, occupant satisfaction, productivity, and well being, and reducing the incidence of health conditions and chronic diseases related to the use of a designed space. This book provides architectural practitioners, civil engineers as well as other interdisciplinary researchers with the techniques needed to design, implement, and test for sustainability and health promotion in new or existing structures. **Research Methodology in Landscape Architecture** *Trafford Publishing* Being the first of its kind this book will help the readers especially students and writers to be able to write papers, theses, dissertations and journal articles in the field of landscape architecture. It explains in very simple terms the various steps and process of a research process. It covers from choosing a research topic, literature review, research methodology, data collection, data analysis, results and discussion, conclusions and recommendations. The readers will be able to grasp very easily the technique of doing research methodology. Beginning from the simple definitions to the final write up this book will guide the reader all the way towards completing the research process. Hundreds of lecturers and students have benefitted from this book and many have successfully written a well defined research papers in landscape architecture and terminal papers on other design based discipline. It has been lauded by university professors, students and paper writers as being timely and helpful in aiding them in writing research papers. **Research Methods for Architecture** *Laurence King Publishing* While fundamentally a design discipline, architectural education requires an element of history and theory, grouped under the term 'research'. However, many students struggle with this part of their course. This practical handbook provides the necessary grounding in this subject, addressing essential questions about what research in architecture can be. The first part of the book is a general guide to the fundamentals of how to do research, from assembling a literature review to conducting an interview. The second section presents a selection of case studies dealing with such topics as environmental psychology, the politics of space, ethnographic research and mapping. **Flexible Housing** *Routledge* Flexible housing is housing that can adjust to the changing needs of the user and accommodate new technologies as they emerge. Flexible Housing by Jeremy Till and Tatjana Schneider examines the past, present and future of this important subject through over 160 international examples. Specially commissioned plans, printed to scale, together with over 200 illustrations and diagrams provide fascinating detail and allow direct visual comparisons to be made. Combining history, theory and design the book explains the social and economic benefits that can be achieved and shows the various ways it has been and can be delivered. The book ends with an accessible guide to how flexible housing might be designed and constructed today to achieve adaptable and ultimately sustainable buildings. Housing designers, housing managers and students of architecture, construction and housing will find this book of immense value both as a comprehensive reference and design manual. Biomimetic Research for Architecture and Building Construction Biological Design and Integrative Structures *Springer* This book comprises a first survey of the Collaborative Research Center SFB-TRR 141 'Biological Design and Integrative Structures – Analysis, Simulation and Implementation in Architecture', funded by the Deutsche Forschungsgemeinschaft since October 2014. The SFB-TRR 141 provides a collaborative framework for architects and engineers from the University of Stuttgart, biologists and physicists from the University of Freiburg and geoscientists and evolutionary biologists from the University of Tübingen. The programm is conceptualized as a dialogue between the disciplines and is based on the belief that biomimetic research has the potential to lead everyone involved to new findings far beyond his individual reach. During the last few decades, computational methods have been introduced into all fields of science and technology. In architecture, they enable the geometric differentiation of building components and allow the fabrication of porous or fibre-based materials with locally adjusted physical and chemical properties. Recent developments in simulation technologies focus on multi-scale models and the interplay of mechanical phenomena at various hierarchical levels. In the natural sciences, a multitude of quantitative methods covering diverse hierarchical levels have been introduced. These advances in computational methods have opened a new era in biomimetics: local differentiation at various scales, the main feature of natural constructions, can for the first time not only be analysed, but to a certain extent also be transferred to building construction. Computational methodologies enable the direct exchange of information between fields of science that, until now, have been widely separated. As a result they lead to a new approach to biomimetic research, which, hopefully, contributes to a more sustainable development in architecture and building construction. How Will India Fix Her Urban Future? *Between Architecture and Urbanism* Stories of Innovation, Inclusion, Sustainability and Smartness Design Research in Architecture An Overview *Routledge* What is the role of design research in the types of insight and knowledge that architects create? That is the central question raised by this book. It acts as the introductory overview for Ashgate's major new series, 'Design Research in Architecture' which has been created in order to establish a firm basis for this emerging field of investigation within architecture. While there have been numerous architects-scholars since the Renaissance who have relied upon the interplay of drawings, models, textual analysis, intellectual ideas and cultural insights to scrutinise the discipline, nonetheless, until recently, there has been a reluctance within architectural culture to acknowledge and accept the role of design research as part of the discourse. However, in many countries around the world, one of the key changes in architecture and architectural education over the last decade has been the acceptance of design as a legitimate research area in its own right and this new series provides a forum where the best proponents of architectural design research can publish their work. This volume provides a broad overview on design research that supports and amplifies the different volumes coming out in the book series. It brings together leading architects and academics to discuss the more general issues involved in design research. At the end, there is an Indicative Bibliography which alludes to a long history of architectural books which can be seen as being in the spirit of design research. Cardboard in Architecture *IOS Press* The Department of Building Technology at the Faculty of Architecture at TU Delft is studying and developing cardboard as a potential building material on a broad, systematic and where possible comprehensive basis. The guiding research question is: "How can cardboard be used in both architectural and structural terms as a fully fledged building material, making use of the material-specific properties?" An exploratory phase from 2003 to 2005 - including an outdoor pilot structure (multi-shed), a pilot pavilion accommodating, an exhibition, workshops on resistance to fire and to damp, a first patent (KCPK), the design of an interior wall (Besin) and the publication of this book - was concluded by an international symposium attended by both the paper industry and the building industry. This publication comprises the report on that symposium. Research Culture in Architecture Cross-Disciplinary Collaboration *Birkhäuser* Research in and on architecture is as complex as the discipline itself with its different specialist fields, and therefore the results often remain unconnected. Research Culture in Architecture combines digital and analog research issues and demonstrates how important cross-disciplinary cooperation in architecture is today. The complexity and increasing specialization are elaborated on in the various chapters and then linked to the core of architecture, i.e. design. Scientists from the theoretical and practical fields present research results in the following subjects: "design methodology", "architectural space, perception, and the human body", "analog and digital timber construction", "visualization", "robotics", "architectural practice and research", and "sustainability". Yuri Avvakumov: Paper Architecture An Anthology The traditions of paper architecture derive from French and Italian designs of the eighteenth century and avant-garde projects produced in the Soviet Union in the 1920s and 1930s. The latter were denounced at the time for their detachment from reality, practice, and ideology, which made them unsuitable for promoting the building of socialism In the early 1980s, a group of students at Moscow Architectural Institute found a way around the censor and began sending entries to Japanese ideas competitions. They immediately started winning. Yuri Avvakumov was one of the key figures in the paper architecture movement of the time and amassed a large collection of works by his friends and colleagues. As well as an introductory essay by Avvakumov, the book includes a selection of press cuttings, many of which are translated to English for the first time. Paper Architecture. An Anthology was first published in Russian in 2019. It won The Art Newspaper Russia Book of the Year award. Uncommon Ground Architecture, Technology, and Topography *MIT Press* Focusing on the years 1930 to 1960, this book reassesses the relationship between siting and construction. It argues that the the interplay of technology and topography was paramount. The Art and Architecture of Academic Writing *John Benjamins Publishing Company* This book is a bridge to confident academic writing for advanced non-native English users. It emphasizes depth over breadth through mastery of core writing competencies and strategies which apply to most academic disciplines and genres. Tailored to students in EMI programs, the content was piloted and revised during a longitudinal writing study. The innovative approach prepares

students to write for the academic community through the dual lenses of Art (developing a writer's voice through choices in language, style, and topics) and Architecture (mastering norms of academic language, genre, and organization.) The user-friendly text maximizes time for writing practice and production by avoiding lengthy readings. Part 1 builds skills and confidence in writing by focusing on assignments that do not require research. Part 2 applies newly mastered principles, skills, and strategies to research-based writing. Students learn to incorporate thesis, research, and evidence into a process for academic writing by following the AWARE framework (Arranging to write, Writing, Assessing, Revising, and Editing.) **Architecture and Engineering The Challenges - Trends - Achievements** *MDPI* The book is addressed to architects and civil engineers. Design and research are areas connecting their activities. The contents of the book confirm the fact that the interface between architecture and engineering is multidimensional. The ways of finding points of contact between the two industries are highlighted. This is favored by the dynamically changing reality, supported by new design paradigms and new research techniques. The multithreaded subject matter of the articles is reduced to six sections: Research Scopes, Methods, Design Aspects, Context, Nature of Research, and Economy and Cost Calculation. Each of the articles in these six blocks has its weight. And so, in the Nature of Research section, the following areas have been underscored: laboratory tests, in situ research, field investigations, and street perception experiments. The section Design Aspects includes design-oriented thinking, geometrical forms, location of buildings, cost prediction, attractor and distractor elements, and shaping spatial structures. The new design and research tools are an inspiration and a keystone bonding architects and engineers. **Research Methods and Techniques in Architecture** *Routledge* A scientific approach to architectural and architectonic research from the scope of just one discipline is no longer sufficient. With contemporary considerations such as behavior, health, and environmental protection, architects and students alike need holistic research methodologies that incorporate qualitative elements as well as more traditional quantitative ones. Research Methods and Techniques in Architecture examines research methodologies and tools applied in science and architectonic practice. Beginning with a thorough introduction to the main scientific, environmental, and architectural theories of the late twentieth century, the book guides the reader through the different aspects of architectural research design, building research teams, choosing applicable research methods, and representing research results. **Architecture and Identity** *LIT Verlag Münster* This book brings together complex fields of knowledge and globally splintered discourses on a subject that is experienced not only by scholars, but in the everyday lives of people around the world. There is a common complaint about the loss of identity which, to a substantial degree, is being associated with the built environment in cities and specifically with their architecture. "Architecture and Identity" takes a global, multidisciplinary look on how identities in contemporary architecture are constructed. The general hypothesis underlying this book is that in a globalized world identity in architecture cannot be easily derived from distinct indigenous patterns. The book presents forty contributions from various disciplines aiming to destroy the myth of an inheritable or otherwise prefabricated identity. Some authors dismantle constructs of identity that have long been considered as "solid" and unbreakable while others meticulously unravel the "construction" process of identities in **Writing Architecture A Practical Guide to Clear Communication about the Built Environment** *Trinity University Press* For ages, architects have been criticized for speaking an insular language, known to some as "archispeak." Writing Architecture considers the process, methods, and value of architecture writing based on Carter Wiseman's 30 years of personal experience in writing, editing, and teaching in young architects how to write. This book creatively tackles a problematic issue that Wiseman considers to be a crucial characteristic of successful architecture writing: clarity of thinking and expression. He argues that because we live our lives within the built environment, architecture is the most comprehensive and complex of all art forms. Even brilliantly inspired and complex architectural structures would only amount to misunderstood abstractions without the support and reinforcement of the clear explanation. Written as a primer for both college level students and practitioners, Writing Architecture acknowledges and explores the boundaries between different techniques of architecture writing from myriad perspectives and purposes. A poetic description of the beauty and impact of a bridge will not illuminate the mechanical knowledge housed in the structure, but at the same time, dense architectural theory will not encourage individuals experiencing and supporting the bridge to perceive significance and usefulness in the design. Using excerpts and from writers in different genres and from different historical periods, Wiseman offers a unique and authoritative perspective on comprehensible writing skills needed for success. **Reading Architecture Literary Imagination and Architectural Experience** *Routledge* Why write instead of draw when it comes to architecture? Why rely on literary pieces instead of architectural treatises and writings when it comes to the study buildings and urban environments? Why rely on literary techniques and accounts instead of architectural practices and analysis when it comes to academic research and educational projects? Why trust authors and writers instead of sociologists or scientists when it comes to planning for the future of cities? This book builds on the existing interdisciplinary bibliography on architecture and literature, but prioritizes literature's capacity to talk about the lived experience of place and the premise that literary language can often express the inexpressible. It sheds light on the importance of a literary instead of a pictorial imagination for architects and it looks into four contemporary architectural subjects through a wide variety of literary works. Drawing on novels that engage cities from around the world, the book reveals aspects of urban space to which other means of architectural representation are blind. Whether through novels that employ historical buildings or sites interpreted through specific literary methods, it suggests a range of methodologies for contemporary architectural academic research. By exploring the power of narrative language in conveying the experience of lived space, it discusses its potential for architectural design and pedagogy. Questioning the massive architectural production of today's globalized capital-driven world, it turns to literature for ways to understand, resist or suggest alternative paths for architectural practice. Despite literature's fictional character, the essays of this volume reveal true dimensions of and for places beyond their historical, social and political reality; dimensions of utmost importance for architects, urban planners, historians and theoreticians nowadays. **ARO: Architecture Research Office** *Princeton Architectural Press* "The process of investigation, analysis, and testing makes Architecture Research Office (ARO) as much a laboratory as a design firm. For Stephen Cassell, Adam Yarinsky, and their team, the starting point of each commission is not the development of an abstract "idea" for the project, but an intensive, hands-on occupation with a project's conditions, with its physical, economic, and social contexts. This practical approach to making architecture, to shrinking the distance between thinking and building, is much evident in their work, which manages to be simultaneously thoughtful and sensual." "The seven projects featured in this, the first monograph on the work of this firm, range from self-directed research (ARO's paper wall project), to private living spaces (the SoHo Loft), to commercial interiors (the Qiora Store and Spa), to the popular U.S. Armed Services Recruiting Station in Times Square, to the stunning Colorado House in Telluride. All of these projects challenge design conventions, while delighting the senses with their unusual materials, careful detailing, and unexpected spatial discoveries." "With essays by Stan Allen, Philip Nobel, Guy Nordenson, and Sarah Whiting."--BOOK JACKET.Title Summary field provided by Blackwell North America, Inc. All Rights Reserved **Smart City in India Urban Laboratory, Paradigm or Trajectory?** *Taylor & Francis* This book is a critical reflection on the Smart City Mission in India. Drawing on ethnographic data from across Indian cities, this volume assesses the transformative possibilities and limitations of the program. It examines the ten core infrastructural elements that make up a city, including water, electricity, waste, mobility, housing, environment, health, and education, and lays down the basic tenets of urban policy in India. The volume underlines the need to recognize liminal spaces and the plans to make the 'smart city' an inclusive one. The authors also look at maintaining a link between the older heritage of a city and the emerging urban space. This volume will be of great interest to planners, urbanists, and policymakers, as well as scholars and researchers of urban studies and planning, architecture, and sociology and social anthropology. **Blue Papers Researches on Digitational Architecture** *Applied Research & Design* During the last 30 years, the use of digital technologies in architecture has exponentially increased. New computational tools and methods are significantly changing the way we design and perform our buildings. In addition to that, the advancement in the field of digital fabrication and robotics is giving life to new automated systems, able to promote new integrative and co-evolutionary approaches which are moving the construction industry towards more efficient and sustainable processes. Although the integration of computation and robotics in architectural design and construction is becoming a central aspect in contemporary architectural practice, the definition of "digital architecture" coming from such technological advancement is still very problematic. For someone, digital architecture is a sum of technological tools; for others, a system of advanced methods. In both cases, the understanding of digital architecture is still far from its completion, and such a delay of understanding represents a significant part of the confusing and slippery territory in which digital architecture is currently developed.0This book analyses the current digital evolution of architecture through a series of considerations related to several aspects of the ongoing digital era, ranging from the problem of authorship and human creativity in computational design to notions related to architectural pedagogy, professional practice and robotic construction. **Information Research** *Kendall Hunt* **Concepts of Space in Traditional Indian Architecture** *Mapin Publishing Pvt* This book provides an understanding of the very roots of what constitutes the Indian context by examining its notions of time, space and existence. the study unravels the inherent virtues of traditional Indian architecture and interprets them as universal dictums, relevant to reinstate in contemporary times. **Service-Oriented Computing. ICSOC/ServiceWave 2009 Workshops International Workshops, ICSOC/ServiceWave 2009, Stockholm, Sweden, November 23-27, 2009, Revised Selected Papers** *Springer Science & Business Media* This book constitutes the refereed proceedings of the International Workshops on Service-Oriented Computing, ICSOC/ServiceWave 2009, held in Stockholm, Sweden, in November 2009. The book includes papers of workshops on trends in enterprise architecture research (TEAR 2009), SOA, globalization, people, and work (SG-PAW), service oriented computing in logistics (SOC-LOG), non-functional properties and service level agreements management in service oriented computing (NFPSLAM-SOC 09), service monitoring, adaptation and beyond (MONA+), engineering service-oriented applications (WESOA09), and user-generated services (UGS2009). The papers are organized in topical sections on business models and architecture; service quality and service level agreements track; and service engineering track. **Architect Bill Haresnape 1921-1991 Research Paper Research in Landscape Architecture Methods and Methodology** *Routledge* Defining a research question, describing why it needs to be answered and explaining how methods are selected and applied are challenging tasks for anyone embarking on academic research within the field of landscape architecture. Whether you are an early career researcher or a senior academic, it is essential to draw meaningful conclusions and robust answers to research questions. Research in Landscape Architecture provides guidance on the rationales needed for selecting methods and offers direction to help to frame and design academic research within the discipline. Over the last couple of decades the traditional orientation in landscape architecture as a field of professional practice has gradually been complemented by a growing focus on research. This book will help you to develop the connections between research, teaching, and practice, to help you to build a common framework of theory and research methods. Bringing together contributions from landscape architects across the world, this book covers a broad range of research methodologies and examples to help you conduct research successfully. Also included is a study in which the editors discuss the most important priorities for the research within the discipline over the coming years. This book will provide a definitive path to developing research within landscape architecture. **Architecture and Disjunction** *MIT Press* Avant-garde theorist and architect Bernard Tschumi is equally well known for his writing and his practice. Architecture and Disjunction, which brings together Tschumi's essays from 1975 to 1990, is a lucid and provocative analysis of many of the key issues that have engaged architectural discourse over the past two decades—from deconstructive theory to recent concerns with the notions of event and program. The essays develop different themes in contemporary theory as they relate to the actual making of architecture, attempting to realign the discipline with a new world culture characterized by both discontinuity and heterogeneity. Included are a number of seminal essays that incited broad attention when they first appeared in magazines and journals, as well as more recent and topical texts.Tschumi's discourse has always been considered radical and disturbing. He opposes modernist ideology and postmodern nostalgia since both impose restrictive criteria on what may be deemed "legitimate" cultural conditions. He argues for focusing on our immediate cultural situation, which is distinguished by a new postindustrial "unhomeliness" reflected in the ad hoc erection of buildings with multipurpose programs. The condition of New York and the chaos of Tokyo are thus perceived as legitimate urban forms. **Writing About Architecture Mastering the Language of Buildings and Cities** *Chronicle Books* Extraordinary architecture addresses so much more than mere practical considerations. It inspires and provokes while creating a seamless experience of the physical world for its users. It is the rare writer that can frame the discussion of a building in a way that allows the reader to see it with new eyes. Writing About Architecture is a handbook on writing effectively and critically about buildings and cities. Each chapter opens with a reprint of a significant essay written by a renowned architecture critic, followed by a close reading and discussion of the writer's strategies. Lange offers her own analysis using contemporary examples as well as a checklist

of questions at the end of each chapter to help guide the writer. This important addition to the Architecture Briefs series is based on the author's design writing courses at New York University and the School of Visual Arts. Lange also writes a popular online column for Design Observer and has written for Dwell, Metropolis, New York magazine, and The New York Times. Writing About Architecture includes analysis of critical writings by Ada Louise Huxtable, Lewis Mumford, Herbert Muschamp, Michael Sorkin, Charles Moore, Frederick Law Olmsted, and Jane Jacobs. Architects covered include Marcel Breuer, Diller Scofidio + Renfro, Field Operations, Norman Foster, Frank Gehry, Frederick Law Olmsted, SOM, Louis Sullivan, and Frank Lloyd Wright. Foreign Affairs Research Papers Available Research Methodology in Landscape Architecture *Partridge Publishing Singapore* Being the first of its kind this book will help the readers especially students and writers to be able to write papers, theses, dissertations and journal articles in the field of landscape architecture. It explains in very simple terms the various steps and process of a research process. It covers from choosing a research topic, literature review, research methodology, data collection, data analysis, results and discussion, conclusions and recommendations. The readers will be able to grasp very easily the technique of doing research methodology. Beginning from the simple definitions to the final write up this book will guide the reader all the way towards completing the research process. Hundreds of lecturers and students have benefitted from this book and many have successfully written a well defined research papers in landscape architecture and terminal papers on other design based discipline. It has been lauded by university professors, students and paper writers as being timely and helpful in aiding them in writing research papers. Developing Research Proposals *SAGE* Writing a research proposal is one of the most important tasks facing academics, researchers and postgraduate students. Yet there is a good deal of misinformation and a great lack of guidance about what constitutes a good research proposal and what can be done to maximise one's chances of writing a successful research proposal. Denicolo and Becker recognise the importance of developing an effective research proposal for gaining either a place on a research degree programme or funding to support research projects and set out to explore the main factors that that proposal writers need to attend to in developing successful proposals of their own. Developing Research Proposals will help readers to understand the context within which their proposal will be read, what the reviewers are looking for and will be influenced by, while also supporting the development of relevant skills through advice and practical activities. This book: Explores the nature and purpose of different kinds of proposals Focuses on the actual research proposed Discusses how best to carry out and structure the literature review Examines the posing and phrasing of research questions and hypotheses Looks at how methods and methodology should be handled in a proposal Discusses the crucial issues of planning, strategy and timing in developing targeted proposals Denicolo and Becker draw together the key elements in the process of preparing and submitting a proposal and concludes with advice on responding to the results, successful or not, and their relevance to future proposals. The Success in Research series, from Cindy Becker and Pam Denicolo, provides short, authoritative and accessible guides on key areas of professional and research development. Avoiding jargon and cutting to the chase of what you really need to know, these practical and supportive books cover a range of areas from presenting research to achieving impact, and from publishing journal articles to developing proposals. They are essential reading for any student or researcher interested in developing their skills and broadening their professional and methodological knowledge in an academic context. Applied Software Architecture *Addison-Wesley Professional* "Designing a large software system is an extremely complicated undertaking that requires juggling differing perspectives and differing goals, and evaluating differing options. Applied Software Architecture is the best book yet that gives guidance as to how to sort out and organize the conflicting pressures and produce a successful design." -- Len Bass, author of Software Architecture in Practice. Quality software architecture design has always been important, but in today's fast-paced, rapidly changing, and complex development environment, it is essential. A solid, well-thought-out design helps to manage complexity, to resolve trade-offs among conflicting requirements, and, in general, to bring quality software to market in a more timely fashion. Applied Software Architecture provides practical guidelines and techniques for producing quality software designs. It gives an overview of software architecture basics and a detailed guide to architecture design tasks, focusing on four fundamental views of software architecture--conceptual, module, execution, and code. Through four real-life case studies, this book reveals the insights and best practices of the most skilled software architects in designing software architecture. These case studies, written with the masters who created them, demonstrate how the book's concepts and techniques are embodied in state-of-the-art architecture design. You will learn how to: create designs flexible enough to incorporate tomorrow's technology; use architecture as the basis for meeting performance, modifiability, reliability, and safety requirements; determine priorities among conflicting requirements and arrive at a successful solution; and use software architecture to help integrate system components. Anyone involved in software architecture will find this book a valuable compendium of best practices and an insightful look at the critical role of architecture in software development. 0201325713B07092001 Integral Sustainable Design Transformative Perspectives *Routledge* This book offers practical and theoretical tools for more effective sustainable design solutions and for communicating sustainable design ideas to today's diverse stakeholders. It uses Integral Theory to make sense of the many competing ideas in this area and offers a powerful conceptual framework for sustainable designers through the four main perspectives of: Behaviours, Systems, Experiences and Cultures. It also uses human developmental theory to reframe sustainable design across four levels of complexity present in society: the Traditional, Modern, Postmodern, and Integral waves. Profuse with illustrations and examples, the book offers many conceptual tools including: - Twelve Principles of Integral Sustainable Design - Sixteen Prospects of Sustainable Design - Six Perceptual Shifts for Ecological Design Thinking - Five Levels of Sustainable Design Aesthetics - Ten Injunctions for Designing Connections to Nature Design and Development of Knowledge Management for Manufacturing Framework, Solution and Strategy *Springer Science & Business Media* This book examines the modules/elements required before implementing knowledge management solutions in typical manufacturing and service industry. The objective is to develop a framework, design and model suitable for all requirements and a strategy to properly implement. Related case studies from organizations are included, with the results provided to use as a solution to problems experienced when implementing knowledge management in the industry. Implementing a knowledge management system can be complex and dynamic, no matter how well planned and developed. Inevitably a degree of organizational inertia is focused on the current state rather than the new. Within an enterprise, personal and group involvement and interests process status and technology landscape can deflect the commitment needed to successfully implement such a system. Cumulative evidence from past research in knowledge management suggests that effective implementation of KM solution in any organization requires a robust designs and models for various critical elements of process, people and technology. Using the techniques provided in this book, readers should be able to design knowledge management strategies, to align objectives of the KM initiatives with their business goals. The Art of Failure An Essay on the Pain of Playing Video Games *MIT Press* An exploration of why we play video games despite the fact that we are almost certain to feel unhappy when we fail at them. We may think of video games as being "fun," but in The Art of Failure, Jesper Juul claims that this is almost entirely mistaken. When we play video games, our facial expressions are rarely those of happiness or bliss. Instead, we frown, grimace, and shout in frustration as we lose, or die, or fail to advance to the next level. Humans may have a fundamental desire to succeed and feel competent, but game players choose to engage in an activity in which they are nearly certain to fail and feel incompetent. So why do we play video games even though they make us unhappy? Juul examines this paradox. In video games, as in tragic works of art, literature, theater, and cinema, it seems that we want to experience unpleasantness even if we also dislike it. Reader or audience reaction to tragedy is often explained as catharsis, as a purging of negative emotions. But, Juul points out, this doesn't seem to be the case for video game players. Games do not purge us of unpleasant emotions; they produce them in the first place. What, then, does failure in video game playing do? Juul argues that failure in a game is unique in that when you fail in a game, you (not a character) are in some way inadequate. Yet games also motivate us to play more, in order to escape that inadequacy, and the feeling of escaping failure (often by improving skills) is a central enjoyment of games. Games, writes Juul, are the art of failure: the singular art form that sets us up for failure and allows us to experience it and experiment with it. The Art of Failure is essential reading for anyone interested in video games, whether as entertainment, art, or education. Journal of the American Institute of Architects Writing and Presenting Research *SAGE* This accessible and wide-ranging book is an invaluable introductory guide through the choices to be made when deciding how to report research. Writing and Presenting Research covers research written as theses and dissertations; chapters, books, reports and articles in academic, professional or general media such as newspapers; and also reviews the options for presenting research orally as lectures, keynotes, conference papers and even TV game shows. These forms of reporting research have well-established conventions for their formats, but they also have growing numbers of alternative possibilities. This has generated debate about what is, or is not, acceptable, and the aim of this book is to make this debate more manageable for those wanting to assess which of the conventional or alternative possibilities on offer is most appropriate for reporting their current research. Arranged in easily followed sections enlivened with checklists, style variations, examples and reflection points, Writing and Presenting Research has relevance to the social sciences, arts, humanities, natural and applied sciences and law and is an invaluable reference tool for new and experienced researchers alike. SAGE Study Skills are essential study guid